

Sub. a3 >

1. A radially deployable stent comprising:
a stent structure having an inner surface and an outer surface, and
a stent covering comprising
5 an inner cover of biocompatible material positioned adjacent said inner
surface of said stent structure, and
an outer cover of biocompatible material positioned adjacent said outer
surface of said stent structure,
wherein at least one of said biocompatible material of said inner cover and said
10 biocompatible material of said outer cover has an average internodal distance (IND) of
greater than 100 microns.
2. The stent of claim 1, wherein said inner cover is folded over said outer surface of
said stent structure to form said outer cover.
- 15 3. The stent of claim 1, wherein a first portion of said inner cover is folded over
said outer surface of said stent structure and a second portion of said inner cover is
folded over said first portion of said inner cover.
- 20 4. The stent of claim 1, wherein said inner cover and said outer cover extend
substantially along the entire length of said stent structure.
5. The stent of claim 1, wherein the stent deploys from a reduced diameter
configuration to an increased diameter configuration at an average deployment pressure
25 of less than or equal to about 10 atm.

Sub. a4 >

6. A radially deployable stent comprising:
a stent structure having an inner surface and an outer surface, and
a stent covering comprising
30 an inner cover of biocompatible material positioned adjacent said inner
surface of said stent structure, and
an outer cover of biocompatible material positioned adjacent said outer
surface of said stent structure,
wherein said stent covering has a radial thickness of at least about 0.008" and the
35 average internodal distance (IND) of each of the inner cover and the outer cover is
greater than 100 microns.

7. The stent of claim 6, wherein said inner cover is folded over said outer surface of said stent structure to form said outer cover.

8. The stent of claim 7, wherein a first portion of said inner cover is folded over
5 said outer surface of said stent structure and a second portion of said inner cover is folded over said first portion of said inner cover.

9. The stent of claim 6, wherein said inner cover and said outer cover extend substantially along the entire length of said stent structure.

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10. The stent of claim 6, wherein the stent deploys from a reduced diameter configuration to an increased diameter configuration at an average deployment pressure of less than or equal to about 10 atm.

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